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RAW SEQUENCE LISTING

DATE: 08/22/2002

PATENT APPLICATION: US/09/938,035B

TIME: 16:26:13

Input Set : A:\SeqList120940.txt

Output Set: N:\CRF4\08222002\I938035B.raw

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3 <110> APPLICANT: Roche Vitamins AG

5 <120> TITLE OF INVENTION: Microbial process for producing L-ascorbic acid and D-erythorbic acid

7 <130> FILE REFERENCE: Alicyclobacillus NA20, 21, FJ21 16S nuc

9 <140> CURRENT APPLICATION NUMBER: US 09/938,035B

C--> 10 <141> CURRENT FILING DATE: 2002-08-16

12 <150> PRIOR APPLICATION NUMBER: EP Application No. 00118059.5

13 <151> PRIOR FILING DATE: 2000-08-23

15 <160> NUMBER OF SEQ ID NOS: 3

17 <170> SOFTWARE: PatentIn version 3.1

19 <210> SEQ ID NO: 1

20 <211> LENGTH: 1529

21 <212> TYPE: DNA

22 <213> ORGANISM: Alicyclobacillus sp.

24 <220> FEATURE:

25 <221> NAME/KEY: rRNA

26 <222> LOCATION: (1)..(1529)

27 <223> OTHER INFORMATION: NA-20 partial 16SrRNA gene sequence

30 <220> FEATURE:

31 <221> NAME/KEY: misc_feature

32 <222> LOCATION: (1)..(1529)

33 <223> OTHER INFORMATION: n can be a or t or g or c

36 <400> SEQUENCE: 1

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47	actgggactg	agacacggcc	cagactccta	cgggaggcag	cagtagggaa	tcttccgcaa	360
49	tgggcgcaag	cctgacggag	caacgccgcg	tgagcgaaga	aggccttcgg	gttgtaaagc	420
51	tctgttgctc	ggggagagcg	gcatggggga	tggaaagccc	catgcgagac	ggtaccgagt	480
53	gaggaagccc	cggctaacta	cgtgccagca	gccgcggtaa	aacgtagggg	gcgagcgttg	540
55	tccggaatca	ctgggcgtaa	agggtgcgta	ggcggtcgag	caagtctgga	gtgaaagtcc	600
57	atggctcaac	catgggatgg	ctttggaaac	tgcttgactt	gagtgtctga	gaggcaaggg	660
59	gaattccacg	tgtagcgggt	aaatgcgtag	agatgtggag	gaataaccagt	ggcgaaggcg	720
61	ccttgctgga	cagtgactga	cgctgaggca	cgaaagcgtg	gggagcaaac	aggattagat	780
63	accctggtag	tccacgccgt	aaacgatgag	tgctaggtgt	tggggggaca	caccccagtg	840
65	ccgaaggaaa	cccaataagc	actccgcctg	gggagtacgg	tcgcaagact	gaaactcaaa	900
67	ggaattgacg	ggggcccgcg	caagcagtgg	agcatgtggt	ttaattcgaa	gcaacgcgaa	960
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73	cccgcaacga	gcgcaaccct	tgacctgtgt	taccagcgcg	ttgaggcggg	gactcacagg	1140
75	tgactgccgg	cgtaagtcgg	aggaaggcgg	ggatgacgtc	aaatcatcat	gcccctgatg	1200
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W--> 83 acaccgcccg tcacaccacg agagtcggca acaccgaag tcggtgaggt aaccctnng 1440
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98 <223> OTHER INFORMATION: NA-21 Partial 16SrRNA gene
101 <220> FEATURE:
102 <221> NAME/KEY: misc_feature
103 <222> LOCATION: (1)..(1529)
104 <223> OTHER INFORMATION: n can be a or t or g or c
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124 gaggaagccc cggctaacta cgtgccagca gccgcggtaa aacgtagggg gcgagcgttg 540
126 tccggaatca ctgggcgtaa aggggtgcga ggcggtcgag caagtctgga gtgaaagtcc 600
128 atggctcaac catgggatgg ctttggaac tgcttgactt gagtgtgga gaggcaaggg 660
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154 acaccgcccg tcacaccacg agagtcggca acaccgaag tcggtgaggt aacccttag 1440
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162 <211> LENGTH: 1495
163 <212> TYPE: DNA
164 <213> ORGANISM: Alicyclobacillus sp.
166 <220> FEATURE:

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167 <221> NAME/KEY: rRNA
168 <222> LOCATION: (1)..(1495)
169 <223> OTHER INFORMATION: FJ-21 Partial 16SrRNA gene sequence
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (1)..(1495)
175 <223> OTHER INFORMATION: n can be a or t or g or c
178 <400> SEQUENCE: 3
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189 cccagactcc tacgggagggc agcagtaggg aatcttccgc aatgggcgca agcctgacgg      360
191 agcaacgccg cgtgagcgaa gaaggccttc gggttgtaaa gctctgttgc tcggggagag      420
193 cggcatgggg agtggaagc cccatgcgag acggtaccga gtgaggaagc cccggctaac      480
195 tacgtgccag cagccgcggt aaaacgtagg gggcgagcgt tgtccggaat cactgggcgt      540
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225 cgagagtcgg caacacccga agtcggtgag gtaaccccga aaggggagcc agccgccgaa     1440
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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 236,994,1438,1439

Seq#:2; N Pos. 236

Seq#:3; N Pos. 218,1103,1106